



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

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2094755

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Date: September 30, 2005

MEMORANDUM

Subject: PRP Search Report, Motorola 52nd Street Superfund Site

To: Nadia Hollan, RPM, Superfund Division
Michele Benson, Senior Attorney-Advisor, ORC

From: *for/* Cliff Davis, CI, Superfund Division *kl*

The Motorola 52nd Street Superfund Site is located in east and central Phoenix, Arizona, north of the Salt River. In the early 1980's, chlorinated solvents were detected in groundwater wells located immediately west of the Motorola, Inc. Semiconductor Products Plant at 5005 East McDowell Road. Investigations of soil and groundwater contamination at the Motorola plant were performed, revealing multiple releases of chlorinated solvents including at least trichloroethylene and 1,1,1-trichloroethane, over time. Releases of hazardous substances from Motorola as well as from other known and suspected sources have resulted in extensive and apparently continuous groundwater contamination extending several miles west of the Motorola facility. The predominant groundwater contaminants at this site are chlorinated solvents and their degradation products, also known as volatile organic compounds (VOC's), principally trichloroethylene (TCE), perchloroethylene (PCE), 1,1,1-trichloroethane (TCA), dichloroethylene (DCE), and vinyl chloride.

Chlorinated solvents were also detected in the late 1980s in groundwater wells near Eastlake Park at 16th and Jefferson Streets, several miles west of the Motorola plant. Independent investigations designed to identify potential sources of groundwater contamination in the Eastlake Park area were performed by Arizona Department of Environmental Quality (ADEQ), with support from Kleinfelder, under Arizona's Water Quality Assurance Revolving Fund (WQARF). This work was essentially abandoned in the early 1990s, in part because additional groundwater sampling suggested that the Eastlake Park contamination was commingled with the Motorola plume.

Over time, three study areas have been delineated at this site, as the westward extent and apparent continuity of the plume has been better characterized. Study Area 1 is generally the area

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including and surrounding the Motorola plant. Study Area 2 is bounded by 48th Street, McDowell Road, 20th Street, and the extension of Buckeye Road. ADEQ has assumed enforcement lead for the first two Study Areas at this site, while EPA has enforcement lead for the third Study Area, roughly bounded by 20th Street, Buckeye Road, 7th Avenue, and McDowell Road. Through 1998, PRPs included 1) Motorola, Inc.; 2) AlliedSignal, Inc. (now Honeywell International, Inc. through the merger of AlliedSignal, Inc. and Honeywell, Inc.); 3) the City of Phoenix as an owner of real property both at the time of release(s) or disposal and currently; 4) Walker Power Systems, Inc. (formerly Tiernay Turbines, Inc.); 5) AdobeAir, Inc. (with the issue of past owners and operators such as ArvinMeritor [formerly Arvin Industries] of the facility not adequately addressed); and 6) ITT Cannon. ITT Cannon subsequently performed facility investigations which persuaded ADEQ to issue a “no further action” letter to ITT Cannon and to drop ITT Cannon as a PRP.

In 1998, EPA began a third, more comprehensive PRP Search to identify sources of the groundwater contamination found in Study Area 3, with extensive enforcement support services provided by SAIC under the enforcement support services contracts. Because groundwater flow is exceptionally rapid, with a predominant flow direction from northeast to southwest, facilities which are located upgradient in Study Area 2 and even Study Area 1 are considered potential contributors to contamination now found within (and perhaps even west of) the boundaries of Study Area 3. The purposes of this memorandum are: 1) to provide a summary of the Potentially Responsible Party search activities conducted by EPA and its enforcement support services contractor, Science Applications International, Inc. (SAIC); and, 2) to recommend, based upon the information EPA has gathered through the PRP search activities, individuals and companies which may be identified as PRPs for groundwater contamination at the Motorola 52nd Street Superfund Site.

FOIA Exemptions 5 (attorney work product) and 7(a)

